

STEREO MOC Status Report
Time Period: 2020:020 - 2020:026

STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On day 024, during the DSS 63 support, telemetry and command were lost at 1855z, through the end of track, when the antenna unexpectedly went to brake. This anomaly resulted in the loss of 1.6 hours of real-time telemetry, command and tracking data, as well as 6.9 hours SECCHI SSR data. SSR pointers were repositioned on the subsequent support for all in-situ instruments. The SECCHI SSR pointer was not repositioned since 71% of partition 19 had not been played back when telemetry was lost and MOps could not predict how much additional data would be recorded prior to the next unattended track without inadvertently wrapping their R/W pointer. For more information, see DR #M111998.
- On day 025, during the DSS 14 support, the antenna was stowed between 0309z and 0405z due to a 4.9 magnitude earthquake near the Goldstone complex. This anomaly resulted in the loss of 0.9 hours of real-time telemetry, command and tracking data. All lost SSR data was recovered on the subsequent track as all SSR pointers were repositioned. For more information, see DR #G120845.
- On day 026, the entire DSS-63 track was lost due to the antenna was declared red. This anomaly resulted in the loss of 3.6 hours of real-time telemetry, command and tracking data, as well as 16.3 hours SECCHI SSR data. SSR pointers were repositioned on the subsequent support for all in-situ instruments. The SECCHI SSR pointer was not repositioned since MOps could not predict how much data SECCHI would record prior to the next unattended track without inadvertently wrapping their R/W pointer. For more information, see DR #M112011.

2. The following spacecraft/instrument events occurred during this week. The Ahead observatory operated nominally during this week.

- From day 021 through 023, a SECCHI COR2 and PSP WISPR deep field campaign was conducted.

- On days 021, 023, and 024, the PLASTIC team continued to step the Post Acceleration (PAC) power supply high voltage. All PLASTIC systems are behaving well, except there is a high background count rate, which the PLASTIC team is continuing to monitor.
- The average daily science data return for Ahead was 4.8 Gbits during this week.